ThinkPad T450 Platform Specifications

Processor	4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor								Dimensions ³	14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm				
	Processor		# of	Base	Max Turbo	Cache	Memory	Processor	Weight ²	14.0" Touch (V	WxDxH): 13.35" x 9. No + 3-cell	15" x 0.91"; 339m 3-cell + 3-cell	m x 232.5mm x 23mm 3-cell + 6-cell	
	Number i3-4030U	Cores	Inreads	Frequency 1.9 GHz	Frequency		Types	Graphics		Non-touch	3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg	
	i5-4300U	-		1.9 GHz	2.9 GHz	3МВ		Intel HD Graphics 4400		Multi-touch	3.89 lb / 1.76 kg	4.11 lb / 1.87 kg	4.52 lb / 2.05 kg	
	i3-4300U	-		2.1 GHz	2.9 GHZ		-	4400	Case material	Display cover:	Ų	orced Plastic (non-to-		
	i5-5200U	2	4	2.2 GHz 2.3 GHz		змв	DDR3L-1600	Intel HD Graphics		Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic				
	i7-5500U	1		2.4 GHz	3 GHz		1	5500	Smart card reade	er <i>Optional:</i> Sma	art card reader			
	i7-5600U			2.6 GHz	3.2 GHz	4MB			Media reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45),				
Graphics	Intel HD Graphics 4400 or 5500 in processor, supports external analog monitor via VGA and digital monitor via Mini DisplayPort;									Dock connector (integrated models only)				
	supports Max reso	three ir lution:	ndepende 3840x21	ent displays 60@60Hz	s; (DP via m[00@60Hz (VGA)	Camera Audio support	HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
Chipset Memory	Intel SoC (System on Chip) platform 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity,								Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch				
Display	dual-channel capable, two 204-pin SO-DIMM sockets Some: 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio								Security Security chip ThinkEngine vPro (optional)	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures Intel vPro Technology r Optional: Fingerprint reader on the keyboard bezel, swipe sensor				
	Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS								Fingerprint reade					
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits								Internal battery External battery Max battery life ¹⁰ AC adapter	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)				
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™									Models	3-cell + 3-cell	3-cell + 6-cell 48Wh		
										Battery life	10.08 hr	14.78 hr	19.78 hr	
M.2 SSD (opt) Optical	Some: SSHD with 8GB NAND flash memory Single-sided M.2 SSD, via M.2 card slot None								Preload	Windows® 7 P	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter Windows® 7 Professional 64 preinstalled Some: Windows 8.1 64-bit through downgrade rights in Some: Windows 8.1 Pro 64-bit			
Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville)									Windows 8.1 Pro 64-bit or Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • PC Device Stage • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • Norton™ Internet Security (30 days of virus definitions) Some: Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • Microsoft Office preloaded; purchase a product key to activate • Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) • McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)				
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter													
WLAN⁴	One of the following, configurable by model: 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card (WE only) 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card (WE only) 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card													
WWAN (optional)	One of the following, configurable by model: Wireless WAN upgradable Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE only) Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card													
									Limited warranty ¹³	12 One of the following, configurable by model: • 1-year depot repair service				
SIM card (opt)	pt) AT&T® or Verizon® LTE (4G), contract required with service provider							er		 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) 				
						Environment	EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant							